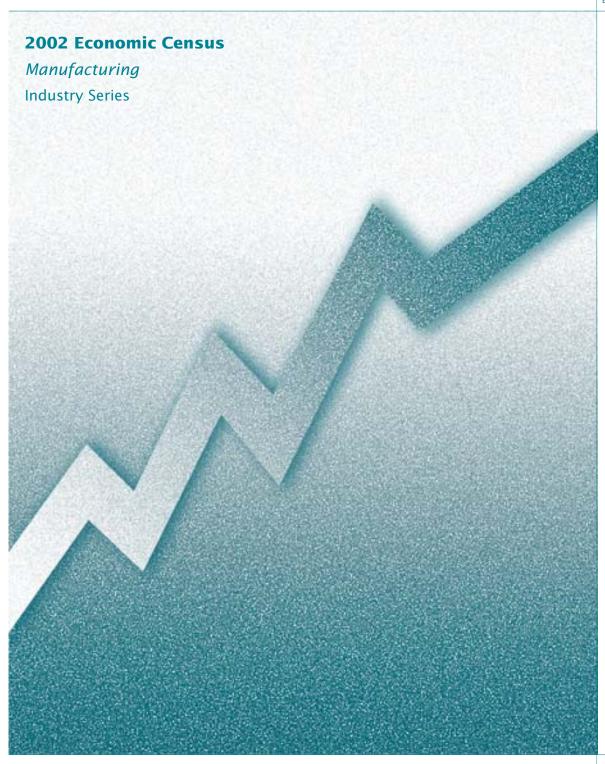
Watch, Clock, and Part Manufacturing: 2002

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-- Not applicable for this report.

Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

		All	All employees		Production workers				Total	Total	Total capital
Industry and year ¹	Com- panies ²	estab- lish- ments ³	Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	shipments	expendi- tures (\$1,000)
334518, Watch, clock, and part											
manufacturing	124	126	3 579	125 522		4 763	63 343	419 251	288 392	699 622	r9 421
2001	N	N	6 382	200 238		8 268	98 677	568 414	452 773		23 634
2000	N	N	7 026		4 318	11 117	104 345	695 090	463 498	1 150 650	44 131
1999	N	N	7 480	211 189	5 324	10 471	107 948	771 902	445 232	1 168 367	37 743
1998	N	N	6 521	199 384	4 510	9 596	99 179	598 509	425 110	1 020 778	30 855
1997	145	146	6 333	178 487	4 482	9 229	93 587	550 979	380 479	921 827	26 215

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

		All establishments ²		All employees		Production workers						
Industry and geographic area	E¹	Total	With 20 em- ploy- ees or more	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
334518, Watch, clock, and part manufacturing												
United States. California Connecticut Michigan New York North Carolina Pennsylvania	1 - -	126 20 7 7 15 3 10	38 7 3 6 1 4	3 579 497 113 737 255 134 142	125 522 14 905 4 581 28 702 9 525 4 531 3 717	2 401 340 54 574 149 52 94	4 763 723 107 1 143 249 81 171	63 343 7 234 1 614 18 456 3 621 1 146 1 668	419 251 40 683 17 982 67 460 29 335 13 179 6 954	288 392 36 095 9 008 51 159 50 243 13 531 4 748	699 622 77 204 26 771 116 837 78 078 26 235 11 736	r9 421 r1 632 r197 r947 r1 421 r330 r579

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

¹Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 3. Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
334518, Watch, clock, and part manufacturing	
Companies ¹ number	124
All establishments ²	126 88 30 8
All employees³ number Total compensation \$1,000 Annual payroll \$1,000 Total fringe benefits \$1,000	3 579 156 549 125 522 31 027
Production workers, average for year	2 401 2 518 2 521 2 295 2 260
Production worker hours	4 763 63 343
Total cost of materials \$1,000. Materials, parts, containers, packaging, etc., used \$1,000. Resales \$1,000. Purchased fuels \$1,000. Purchased electricity \$1,000. Contract work \$1,000.	288 392 234 496 45 670 775 3 500 3 951
Quantity of electricity purchased for heat and power	52 140 -
Total value of shipments \$1,000 Primary products value of shipments \$1,000 Secondary products value of shipments \$1,000 Total miscellaneous receipts \$1,000 Value of resales \$1,000 Contract receipts \$1,000 Other miscellaneous receipts \$1,000	699 622 605 575 13 929 80 118 74 478 D
Primary products specialization ratio percent. Value of primary products shipments made in all industries \$1,000. Value of primary products shipments made in this industry \$1,000. Value of primary products shipments made in other industry \$1,000.	98 638 244 605 575 32 669
Coverage ratiopercent .	95
Value added\$1,000.	419 251
Total inventories, beginning of year \$1,000. Finished goods inventories \$1,000. Work-in-process inventories \$1,000. Materials and supplies inventories \$1,000.	102 956 46 302 29 534 27 120
Total inventories, end of year \$1,000. Finished goods inventories \$1,000. Work-in-process inventories \$1,000. Materials and supplies inventories \$1,000.	114 180 61 930 21 927 30 323
Gross value of depreciable assets (acquisition costs) at beginning of year \$1,000 Total capital expenditures (new and used) \$1,000 Buildings and other structures (new and used) \$1,000 Machinery and equipment (new and used) \$1,000 Automobiles, trucks, etc., for highway use. \$1,000 Computers and peripheral data processing equipment \$1,000 All other expenditures for machinery and equipment \$1,000 Total retirements \$1,000 Gross value of depreciable assets at end of year \$1,000	'180 533 '9 421 '1 183 '8 238 '651 '1 552 '6 035 '5 089 '184 865
Depreciation charges during year\$1,000	^r 13 531
Total rental payments \$1,000. Buildings and other structures \$1,000. Machinery and equipment \$1,000.	10 195 7 004 3 191
Total other expenses ⁴ \$1,000. Response coverage ratio ⁵ percent. Repair and maintenance services of buildings and/or machinery ⁴ \$1,000. Communications services ⁴ \$1,000. Legal services ⁴ \$1,000. Accounting, auditing, and bookkeeping services ⁴ \$1,000. Advertising and promotional services ⁴ \$1,000. Expensed computer hardware and supplies and purchased computer services ⁴ \$1,000. Refuse removal (including hazardous waste) services ⁴ \$1,000. Management consulting and administrative services ⁴ \$1,000. Taxes and license fees ⁴ \$1,000. All other expenses ⁴ \$1,000.	35 676 83 3 622 870 1 312 659 2 495 1 054 355 659 679 23 970

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.
2Includes establishments with payroll at any time during the year.
3Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.
4Based on 2002 Annual Survey of Manufactures (ASM) sample data.
5A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class			All emp	oloyees	Pi	roduction worke	ers		Total	Total	Total
		All estab- lish- ments ²	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	value of shipments (\$1,000)	capital expendi- tures (\$1,000)
334518, Watch, clock, and part manufacturing											
All establishments Establishments with — 1 to 4 employees 5 to 9 employees 20 to 49 employees 5 to 99 employees 5 to 99 employees 5 to 99 employees 5 to 499 employees 250 to 499 employees 500 to 999 employees 1,000 to 2,499 employees 2,500 employees or more	7 4 1 1 - -	126 62 12 14 18 12 6 1	3 579 112 82 183 538 808 1 011 e f	125 522 4 001 3 125 7 135 19 695 29 749 27 633 D D	2 401 69 48 111 298 455 835 D D	4 763 122 90 234 553 923 1 653 D	63 343 1 472 1 408 3 253 6 893 12 437 19 851 D	419 251 8 308 6 438 17 905 55 858 185 217 78 491 D D	288 392 8 086 8 544 8 968 53 838 90 206 66 064 D D	699 622 16 110 15 501 27 028 108 873 279 695 141 763 D D	'9 421 '265 '576 '1 128 '1 375 '3 442 '2 297 D D
Administrative records ⁴	9	58	100	3 466	62	109	1 301	6 222	4 761	10 986	r222

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

¹Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or	Industry or primary product class	All	All employees		Pr	oduction work	ers		Total	Total	Total capital
Industry or product class code		All estab- lish- ments ¹	Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	value of shipments (\$1,000)	expendi- tures (\$1,000)
334518	Watch, clock, and part manufacturing .	126	3 579	125 522	2 401	4 763	63 343	419 251	288 392	699 622	^r 9 421
3345182 3345184	Watches, watchcases, movements, and modules (including watch parts)	21	540	17 931	384	796	9 499	59 059	81 980	139 691	r2 367
	and clock cases (including parts)	44	2 907	102 511	1 941	3 830	51 932	349 060	197 986	540 395	r6 767

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

¹Includes establishments with payroll at any time during the year.

²Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Table 6a. Products Statistics: 2002 and 1997

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product		Number of companies with		Product shi	pments
code	Product	shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)
334518	Watch, clock, and part manufacturing	N N	X	×	638 244 751 060
3345182	Watches, watchcases, movements, and modules (including autch parts) 2002. 1997.	N N	X	×	113 590 N
33451821	Watches, watchcases, movements, and modules (including watch parts)	N N	X	×	113 590 N
3345182101	Watches	15	x	X	48 317
3345182106	Watchcases, movements and modules (including watch parts)	N 5	x x	x x	9 098
3345182108	Lapidary work, including cutting, engraving, and polishing precious stones (including diamonds), semiprecious stones, natural pearls, and cultured pearls, for use as watch jewels	N 9	×	×	N 56 175
0045100\/	1997	Ň	\hat{x}	x	N N
3345182Y	Watches, watchcases, movements, and modules (including watch parts), nsk	N N	X	X	_ N
3345182YWV	Watches, watchcases, movements, and modules (including watch parts), nsk	N N	X	X X	_ N
3345184	Clocks, timing mechanisms, time recording and time stamp devices, time switches, clock movements, and clock cases (including parts)	N	x	x	507 468
33451841	Clocks, timing mechanisms, time recording and time stamp devices, time switches, clock movements, and clock cases (including parts)	N N	x x	x x	N 507 468
3345184101	Alarm clocks, excluding clock timers and timing mechanisms	N 4	X X	x x	N 46 556
3345184106	Household wall clocks, excluding alarm clocks	N 12	X X X	X	N 31 253
3345184111	All other household clocks (including chime and strike, desk, mantel, etc.), excluding alarm clocks	N 13		x	N 102 036
3345184116	1997 Other complete clocks, excluding alarm clocks	N 14	X X X	X X X	N 22 876
3345184121	Household timing mechanisms, excluding time recording and time stamp machines	N 1	x x	x x	N D
3345184126	Commercial timing mechanisms, excluding time recording and time stamp machines	N 6	X X	x x	7 908
3345184131	1997 Time recording and time stamp machines and devices	N 9	X	X	N 213 800
3345184136	Other timing mechanisms (including military), excluding time recording and time stamp machines	N _	X X	X	N D
3345184141	Timers and switch clocks with clock or watch movements or	N	x̂	â	N
	modules having dials or displays for telling time of day	10 N	XX	X	15 653 N
3345184146	Clock movements and modules, complete	4 N	X X X	X X X	13 042 N
3345184147	Chronometers	7 N	X	X	14 815 N
3345184151	Other clock parts (except timing motors), clock and watch springs, and parts and attachments for time recording and	4			
3345184Y	time stamp devices	N N	X	X	13 188 N
3345184YWV	Clocks, timing mechanisms, time recording and time stamp devices, time switches, clock movements, and clock cases	N	X	×	N
	(including parts), nsk	N N	X	X	N
334518W	Watch, clock, and part manufacturing, nsk, total	N N	×	X	17 186 36 206
334518WY	Watch, clock, and part manufacturing, nsk, total	N N	X X	x x	17 186 36 206
334518WYWW	Watch, clock, and part manufacturing, nsk, for nonadministrative-record establishments	N N	X	X	3 993 16 214
334518WYWY	Watch, clock, and part manufacturing, nsk, for administrative-record establishments	N	x	x	13 193

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6b. Product Class Shipments for Selected States: 2002 and 1997

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
3345182	Watches, watchcases, movements, and modules (including watch parts)	
	United States. 2002.	113 590
	1997 New York	N 63 917
	1997 Pennsylvania	N 4 764
	1997	N
3345184	Clocks, timing mechanisms, time recording and time stamp devices, time switches, clock movements, and clock cases (including parts)	
	United States	507 468
	1997	N 58 299
	1997 Connecticut 2002.	N 19 106
	1997 Michigan	N 106 836
	1997 Pennsylvania	N 5 418 N

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
334518	Watch, clock, and part manufacturing		
00900001	Total materials	X	234 496
33100033	Metal shapes and forms (excluding castings, forgings, and fabricated metal products)	X	284 935 476
33100035	Castings, rough and semifinished	X X X X X	D D 2 906
33200095	Other fabricated metal products (excluding castings and forgings)	×	3 473
33210000	Forgings	ŝ	7 277 D
33441200	Printed circuit boards (without inserted components) for electronic circuitry	X X X X	N D 1 297
001900C7	Printed computer processors (system boards, array processors, etc.) for electronic circuitry	x	D
33441500	Resistors for electronic circuitry	X	D 1 576
33441400	Capacitors for electronic circuitry	x x x x x	N 2 579 N
001900B8	Other components and accessories, for electronic circuitry (coils, transformers, transducers, switches, etc), excluding tubes	×	9 775
33531201	Electric motors and generators 2002.	X X X X X	3 493 3 559
	1997	(X)	570
33451801	Domestic (made in the United States) watch movements and modules	â	541 25 734
33451803	Imported (not made in the United States) watch movements and modules	X	8 166
33451805	Domestic (made in the United States) watchcases	X	8 208 D
33451807	Imported (not made in the United States) watchcases	× × × × ×	D D 586
33451811	Domestic (made in the United States) watch parts (including dials, hands, displays, etc.), excluding movements and face crystals	x	D
33451815	1997 Imported (not made in the United States) watch parts (including dials, hands, displays, etc.),	X	4 750
00.0.0.0	excluding movements and face crystals	X	2 161 573
00190092	Watchbands	X X X	308 3 243
00190093	Face crystals	X X	D 295
33141901	Precious metals (gold, platinum, etc.), all forms (including ingot, sheet, strip, solder, plating, electrodes, etc.)	x	D
33232201	Steel, aluminum, and other metal electronic enclosures	X X X	15 449 8 554
	1997	X	N
32619901	Plastics electronic enclosures	X	6 950
33591200	1997 Batteries, primary	X	N 1 246
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X X X X	N 1 574 N
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	, x	D
33593103	Appliance outlets, switches, lampholders, and other current-carrying wiring devices	X	16 893 D
32221001	Paperboard containers, boxes, and corrugated paperboard	X X X X	N 5 269 13 567
00970099	All other materials and components, parts, containers, and supplies	x	68 511
00971000	Materials, ingredients, containers, and supplies, nsk	X X X	93 063 81 317 41 969

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.